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NOTICE OF ALLOWANCE AND FEE(S) DUE

23373

7590

10/01/2008

SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037 EXAMINER

MEAH, MOHAMMAD Y

ART UNIT PAPER NUMBER

1652

DATE MAILED: 10/01/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.

10/538,291 06/10/2005 Kazufumi Yazaki Q88235 9414

TITLE OF INVENTION: METHOD OF SELECTING ESCHERICHIA COLI STRAIN WHICH HIGHLY EXPRESSES EXOGENOUS GENES, ESCHERICHIA COLI MUTANT STRAINS SELECTED BY THIS METHOD AND PROCESS FOR PRODUCING ENZYMES AND COMPOUNDS USING THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	01/02/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

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CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
23373	7590 10/01	/2008						missinı	n
SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800] { {	Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.					
WASHINGTON	I, DC 20037		ſ						(Depositor's name)
									(Signature)
			[(Date)
APPLICATION NO.	FILING DATE	FIRST NAMED INVE		OR		ATTO	RNEY DOCKET NO.	CON	FIRMATION NO.
10/538,291	06/10/2005		Kazufumi Yazaki				Q88235		9414
TITLE OF INVENTIO ESCHERICHIA COLI I USING THE SAME									*
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE		DATE DUE
nonprovisional	NO	\$1440	\$300		\$0		\$1740		01/02/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS						
МЕАН, МОН	MEAH, MOHAMMAD Y 1652								
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 			(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to						
3. ASSIGNEE NAME A PLEASE NOTE: Unl recordation as set fort (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp	A TO BE PRINTED ON ified below, no assignee oletion of this form is NO	data will appear on th T a substitute for filing (B) RESIDENCE: (C	e pa an a	tent. If an assign ssignment. and STATE OR C	COUNT	RY)		
Please check the appropr	iate assignee category or	categories (will not be p	rinted on the patent):	Ч	Individual 🖵 Co	orporati	on or other private gro	up enti	ity 🖵 Government
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5. Change in Entity Star	tus (from status indicateds SMALL ENTITY state			•			FITY status. See 37 CI		
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if reqrecords of the United Sta	uired) will not be accepte	ed from anyone other th	_	_				
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This collection of inform an application. Confiden submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	nation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this bu Virginia 22313-1450. DO	ED 1.311. The informati	on is required to obtain	or re s esti ndivi fficer S TO	utain a banafit by t	he publ	ic which is to file (and	l by the	LISPTO to process)

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10/538,291	06/10/2005	Kazufumi Yazaki	Q88235	9414	
23373 75	23373 7590 10/01/2008		EXAMINER		
SUGHRUE MIO	N, PLLC	MEAH, MOHAMMAD Y			
2100 PENNSYLVANIA AVENUE, N.W.			ART UNIT	PAPER NUMBER	
SUITE 800 WASHINGTON, DC 20037			1652 DATE MAILED: 10/01/200	8	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 14 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 14 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)		
	10/538,291	YAZAKI ET AL.		
Notice of Allowability	Examiner	Art Unit		
	MD. YOUNUS MEAH	1652		
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in to or other appropriate communication. This application is su	his application. If not included ication will be mailed in due course. THIS		
1. This communication is responsive to <u>8/28/08</u> .				
2. 🛮 The allowed claim(s) is/are <u>16</u> .				
 Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☒ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" 	e been received. e been received in Application cuments have been received	No in this national stage application from the		
noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submin INFORMAL PATENT APPLICATION (PTO-152) which give	MENT of this application. itted. Note the attached EXAM	MINER'S AMENDMENT or NOTICE OF		
5. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the deponsition of the deponsitio	st be submitted. son's Patent Drawing Review s Amendment / Comment or in .84(c)) should be written on the he header according to 37 CFR sit of BIOLOGICAL MATER	(PTO-948) attached In the Office action of I drawings in the front (not the back) of 1.121(d). RIAL must be submitted. Note the		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Sur Paper No./M 7. ☑ Examiner's A	lail Date mendment/Comment tatement of Reasons for Allowance		

Application/Control Number: 10/538,291 Page 2

Art Unit: 1652

Notice of Allowability

1. Applicants amendment of 8/28/2008 is acknowledged.

2. Claim 16 is pending and under consideration.

3. Claim 16 is allowed, subject to the following examiner's amendment.

4 An examiner's amendment to the record appears below:

Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given by Abraham Rosner with Telephone on 9/19/2008.

EXAMINER'S AMENDMENT

Rewrite the abstract in one paragraph as attached herewith in separate page below.

5. The following is an examiner's statement of reasons for allowance:

Applicants made novel *Escherichia coli SD840* strain. Prior art does not anticipate or suggest *Escherichia coli SD840* strain. As such *Escherichia coli SD840* strain is novel and non-obvious.

Art Unit: 1652

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mohammad Meah whose telephone number is 571-272-1261. The examiner can normally be reached on 8:30-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, NASHAAT T NASHED can be reached on 571-272-0934. The fax phone number for the organization where this application or proceeding is assigned is 571-273-1261.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mohammad Younus Meah, PhD

Examiner, Art Unit 1652

Recombinant Enzymes, 3C31 Remsen Bld

400 Dulany Street, Alexandria, VA 22314

Telephone: 517-272-1261

Application/Control Number: 10/538,291

Page 4

Art Unit: 1652

/Rebecca E. Prouty/ Primary Examiner, Art Unit 1652 Application/Control Number: 10/538,291 Page 5

Art Unit: 1652

Abstract

The invention relates to a selection method of an *Escherichia coli* mutant strain which expresses an exogenous gene at a high level, wherein stress resistance such as hydrogen peroxide decomposition activity is used as an index, the Escherichia coli mutant strain selected thereby and production methods of enzyme using the strain and of useful compounds like amino acids (especially L-amino acid) and the like using the strain. According to the selection method of the invention, an *Escherichia coli* mutant strain where gene expression amount does not decrease with passage can be obtained, and a compound using a plant-derived ammonia lyase can be efficiently produced.